



Quanterra Incorporated
13715 Rider Trail North
Earth City, Missouri 63045

CASE NARRATIVE

314 298-8566 Telephone
314 298-8757 Fax

Bechtel Hanford Incorporated
3350 George Washington Way
Richland, Washington 99352

June 8, 2000

Attention: Joan Kessner

RECEIVED
SEP 07 2000

EDMC



Project Number	:	34666
SAF	:	B99-042
SDG	:	W03181
Number of Samples	:	one (1)
Sample Matrix	:	Soil
Data Deliverable	:	Summary
Date SDG Closed	:	May 24, 2000

II. Introduction

On May 24, 2000, one (1) "soil" sample was received by Quanterra, Richland and transferred to Quanterra, St. Louis for chemical analysis. The samples were received at the St. Louis lab on 5/25/00 at 2 degrees C. See the attached Sample Summary form for the Lab ID's and corresponding Client Ids.

III. Analytical Results/ Methodology

The analytical results for this report are presented by analytical test. Each set of data includes sample identification information, analytical results and the appropriate detection limits.

Analyses requested: ICP Metals - 6010 (Trace) {As, Cr, Pb}
Mercury - 7471 - (CV)
PCBs - 8082

Deviation from Request: None

IV. Definitions

The following codes are used to denote laboratory quality control samples and can be found in the data summary section of this report:

QCBK- Quality Control Blank, Method Blank
QCLCS- Quality Control Laboratory Control Sample, Blank Spike
MS- Matrix Spike.
DUP- Matrix Duplicate
MSD- Matrix Spike Duplicate.



Bechtel Hanford Incorporated
June 8, 2000
Project Number: 34666
SDG: W03181
Page 2

V. Comments

General: The term "Detection Limit" used in the analytical data reports refers to either the lab's standard reporting limits or contractually required reporting limits, whichever is applicable.

Please refer to the attached cross-reference table for the standard preparation methods used at Quanterra, St. Louis.

PCB: A Laboratory Control Sample, Method Blank, Matrix Spike and Matrix Spike Duplicate were analyzed with each preparation batch per the protocol for this analysis.

The Matrix spike/Matrix spike duplicate RPDs are outside the control limits. The individual recoveries are within criteria.

Metals: A Laboratory Control Sample, Method Blank, Matrix Spike and Matrix Spike Duplicate were analyzed with each preparation batch per the protocol for this analysis.

There were no comments or non-conformances associated with the metals data.

I certify that this Summary is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.

Reviewed and approved:

A handwritten signature in black ink, appearing to read "Marti Ward", written over a horizontal line.

Marti Ward
St. Louis Project Manager

SAMPLE SUMMARY

F0E260111

WO. #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
DDR6W	001	B0XNH0	05/23/00	10:20

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

METHODS SUMMARY

F0E260111

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A	SW846 7471A
Percent Moisture	MCAWW 160.3 MOD	MCAWW 160.3 MOD
PCBs by SW-846 8082	SW846 8082	SW846 3550
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

PSL20300
Page 1

SEVERN TRENT LABORATORIES, INC
CLIENT ANALYSIS SUMMARY
STL St. Louis

Run Date: 5/26/00
Time: 8:16:16
User Id.: PACEM

CLIENT: 127642 BECHTEL HANFORD, INC.
PROJECT MANAGER: MARTI WARD
PROJECT #: 100H AREA FULL
REPORT TO: Joan Kessner
P.O. NUMBER: MRC-SBB-A-19981
SITE: B99-042
AMOUNT REC'D: 60G,120G
STORAGE LOC: S7C
LOT COMMENTS: QC is billable
MATRIX: SOLID
SAMPLE ID: BOXNH0
QC PACKAGE: Special Report - see checklist
SAMPLE COMMENTS:

QUOTE/SAR #: 34666
LAB ID: F-0E260111-001
WORK ORDER: DDR6W
RECEIVING DATE: 5/24/00
SAMPLING DATE: 5/23/00
ANALYTICAL DUE DATE: 6/12/00N
REPORT DUE DATE: ~~6/15/00~~ 6/14/00
PRIORITY: 19
SAMPLING TIME: 10:20
RECEIVING TIME: 11:00
SDG# : W03181

Beginning Depth: .00 Ending Depth: .00

***** ANALYSIS *****				
	WRK LOC	REQUEST DATE	EXTRACTION EXP DATE	ANALYSIS EXP DATE
Inductively Coupled Plasma (6010B Trace) 06		5/26/00	0/00/00	11/19/00
METALS, TOTAL - Soils				
MT6010_S AS, CR, PB				
(A-46-QM-01) DDR6W Protocol: A QC Program: STANDARD TEST SET				
Mercury (7471A, Cold Vapor) - Solids 06		5/26/00	0/00/00	6/20/00
METALS, TOTAL (Method Exclusive) - Solids				
M7471_S HG				
(A-70-O9-01) DDR6W Protocol: A QC Program: STANDARD TEST SET				
Moisture, Percent (160.3) 06		5/26/00	0/00/00	8/30/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(A-88-WM-01) DDR6W-1-0E Protocol: A QC Program: STANDARD TEST SET				
PCBs (8082) 06		5/26/00	6/06/00	7/16/00
SONICATION w/ACID STRIP (PCB)				
STL: HANFORD PCB GC:LIST-1(7)				
(A-71-QH-01) DDR6W-1-0F Protocol: A QC Program: STANDARD TEST SET				

STL St. Louis

PSL20300
Page 1

SEVERN TRENT LABORATORIES, INC
CLIENT ANALYSIS SUMMARY
STL St. Louis

Run Date: 5/26/00
Time: 8:16:16
User Id.: PACEM

CLIENT: 127642 BECHTEL HANFORD, INC.
PROJECT MANAGER: MARTI WARD
PROJECT #: 100H AREA FULL
REPORT TO: Joan Kessner
P.O. NUMBER: MRC-SBB-A-19981
SITE: B99-042
AMOUNT REC'D: 60G,120G
STORAGE LOC: S7C
LOT COMMENTS: QC is billable
MATRIX: SOLID
SAMPLE ID: BOXNH0
QC PACKAGE: Special Report - see checklist
SAMPLE COMMENTS:

QUOTE/SAR #: 34666
LAB ID: F-0E260111-001-D
WORK ORDER: DDR6W MSD
RECEIVING DATE: 5/24/00
SAMPLING DATE: 5/23/00
ANALYTICAL DUE DATE: 6/12/00N
REPORT DUE DATE: 6/15/00
PRIORITY: 19
SAMPLING TIME: 10:20
RECEIVING TIME: 11:00
SDG# : W03181

Beginning Depth: .00 Ending Depth: .00

***** ANALYSIS *****				
	WRK LOC	REQUEST DATE	EXTRACTION EXP DATE	ANALYSIS EXP DATE
Inductively Coupled Plasma (6010B Trace)	06	5/26/00	0/00/00	11/19/00
METALS, TOTAL - Soils				
MT6010_S AS,CR,PB				
(A-46-QM-01) DDR6W	Protocol: A	QC Program:	STANDARD TEST SET	
Mercury (7471A, Cold Vapor) - Solids	06	5/26/00	0/00/00	6/20/00
METALS, TOTAL (Method Exclusive) - Solids				
M7471_S HG				
(A-70-O9-01) DDR6W	Protocol: A	QC Program:	STANDARD TEST SET	
PCBs (8082)	06	5/26/00	6/06/00	7/16/00
SONICATION w/ACID STRIP (PCB)				
STL: HANFORD PCB GC:LIST-1(7)				
(A-71-QH-01) DDR6W-1-0H	Protocol: A	QC Program:	STANDARD TEST SET	

STL St. Louis

PSL20300
Page 1

SEVERN TRENT LABORATORIES, INC
CLIENT ANALYSIS SUMMARY
STL St. Louis

Run Date: 5/26/00
Time: 8:16:16
User Id.: PACEM

CLIENT: 127642 BECHTEL HANFORD, INC.
PROJECT MANAGER: MARTI WARD
PROJECT #: 100H AREA FULL
REPORT TO: Joan Kessner
P.O. NUMBER: MRC-SBB-A-19981
SITE: B99-042
AMOUNT REC'D: 60G,120G
STORAGE LOC: S7C
LOT COMMENTS: QC is billable
MATRIX: SOLID
SAMPLE ID: BOXNH0
QC PACKAGE: Special Report - see checklist
SAMPLE COMMENTS:

QUOTE/SAR #: 34666
LAB ID: F-0E260111-001-S
WORK ORDER: DDR6W MS
RECEIVING DATE: 5/24/00
SAMPLING DATE: 5/23/00
ANALYTICAL DUE DATE: 6/12/00N
REPORT DUE DATE: 6/15/00
PRIORITY: 19
SAMPLING TIME: 10:20
RECEIVING TIME: 11:00
SDG# : W03181

Beginning Depth: .00 Ending Depth: .00

***** ANALYSIS *****				
	WRK LOC	REQUEST DATE	EXTRACTION EXP DATE	ANALYSIS EXP DATE
Inductively Coupled Plasma (6010B Trace) 06		5/26/00	0/00/00	11/19/00
METALS, TOTAL - Soils				
MT6010_S AS,CR,PB				
(A-46-QM-01) DDR6W Protocol: A QC Program: STANDARD TEST SET				
Mercury (7471A, Cold Vapor) - Solids 06		5/26/00	0/00/00	6/20/00
METALS, TOTAL (Method Exclusive) - Solids				
M7471_S HG				
(A-70-O9-01) DDR6W Protocol: A QC Program: STANDARD TEST SET				
PCBs (8082) 06		5/26/00	6/06/00	7/16/00
SONICATION w/ACID STRIP (PCB)				
STL: HANFORD PCB GC:LIST-1(7)				
(A-71-QH-01) DDR6W-1-0G Protocol: A QC Program: STANDARD TEST SET				

Q-27038

CWR 667 20

Airborne 4012705418

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST						B99-042-029 Page 1 of 1							
Collector Renee Nielson	Company Contact Mike Stankovich	Telephone No. 531-7620		Project Coordinator TRENT, SJ		Price Code 8L		Data Turnaround 21 Days							
Project Designation 100 H Area - Full Protocol		Sampling Location 100-H-5		SAF No. B99-042		Air Quality <input type="checkbox"/>									
Ice Chest No. #101		Field Logbook No. EL-1500-1		COA R100H52600		Method of Shipment Hand deliver - Govt. Vehicle									
Shipped To Severn Trent Incorporated		Offsite Property No. NA		Bill of Lading/Air Bill No. NA											
POSSIBLE SAMPLE HAZARDS/REMARKS PCBs Special Handling and/or Storage -PCBs R/N 5/23/00				Preservation	None	None	None	None	Cool 4C	None					
				Type of Container	P	uG	uG	uG	uG	P		1x 126G	1x 60G		
				No. of Container(s)	1	1	1	1	1	1					
				Volume	20mL	60mL	60mL	60mL	120mL	1000mL					
SDG W03181 JOE240187				Activity Scan	See item (1) in Special Instructions	Isotopic Plutonium; Isotopic Uranium	Strontium- 89,90 - Total Sr; Methyl-GS	PCBs - 8082	See item (2) in Special Instructions						
Sample No.	Matrix *	Sample Date	Sample Time												
BOXN-10 DDM02	Soil	5-23-00	1020	X	X	X	X	X	X				BOWXPT		
CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS						Matrix *					
Relinquished By R. Nielson 5/23/00		Date/Time 5:50		Received By R. Thorne 5/23/00		Date/Time 1:55		(1) ICP Metals - 6010A (Spectra) (Arsenic, Chromium, Lead); Mercury - 7471 - (CV) (2) Gamma Spectrometry (Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155)				S-Soil SW-Sediment SO-Solid S-Sludge W-Water O-Oil A-Air DS-Dry Solids DL-Dry Liquids T-Tissue WS-Water L-Liquid V-Vegetation X-Other			
Relinquished By R. Thorne 5/24/00		Date/Time 11:00		Received By K. Sahlenberg 5/24/00		Date/Time 11:00									
Relinquished By K. Sahlenberg 5/24/00		Date/Time 6:00		Received By Judy Water 5/24/00		Date/Time 09:00									
Relinquished By		Date/Time		Received By		Date/Time									
Relinquished By		Date/Time		Received By		Date/Time									
LABORATORY SECTION		Received By		Title						Date/Time					
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By						Date/Time					

Figure 1. Sample Check-in List

Date/Time Received: 5-24-00 11:00 SDG#: W03181
 Work Order Number: JOE240187 SAF#: B99-042
 Shipping Container ID: #101 Chain of Custody #: B99-042-029

1. Outermost shipping container damaged? Yes ☒ No ☐
2. Custody Seals on shipping container intact? Yes ☒ No ☐
3. Custody Seals dated and signed? Yes ☒ No ☐
4. Chain-of-Custody record present? Yes ☒ No ☐
5. Chain-of-Custody includes the following information:
- Client name Yes ☒ No ☐
 - Project name or number Yes ☒ No ☐
 - Sample date/time for each sample Yes ☒ No ☐
 - Container types, sizes and number of containers Yes ☒ No ☐
 - Short description of sample, i.e., matrix Yes ☒ No ☐
 - Analyses requested Yes ☒ No ☐
 - Preservation used or "none" or N/A if not applicable Yes ☒ No ☐
 - Date and time of relinquish and receipt Yes ☒ No ☐
 - Signatures of those persons relinquishing and receiving Yes ☒ No ☐
6. Sample numbers on chain of custody match those on sample containers? Yes ☒ No ☐
7. Collection date and date of laboratory receipt are within project specific holding time requirements? Yes ☒ No ☐
8. Cooler temperature: 4°C 6 Bottles
9. Vermiculite/packing materials is: Wet ☐ Dry ☒

10. Samples have: <input checked="" type="checkbox"/> tape <input checked="" type="checkbox"/> custody seals	_____ hazard labels _____ appropriate sample labels
11. Samples are: <input checked="" type="checkbox"/> in good condition _____ broken	_____ leaking _____ have air bubbles

12. Were any anomalies identified in sample receipt? Yes ☐ No ☒
13. Description of anomalies (include sample numbers): _____

Sample Custodian/Laboratory: K. D. Dinkley Date: 5-24-00
 Telephone/Fax/E-mailed to: _____ On _____ By _____



000667

Lot No.: FOE260111

W03181

Condition Upon Receipt Variance Report St. Louis Laboratory

Client: HanfordDate: 05-25-00 Time: 0900Quote No.: 34666Initiated by: JCWShipper/No: 4012705 4/15 AirborneRFA/COC Numbers: B99-042-029

Condition/Variance (Check all that apply):

1. <input type="checkbox"/> Sample received broken/leaking.	8. <input type="checkbox"/> Sample ID on container does not match sample ID on paperwork. Explain: _____
2. <input type="checkbox"/> Sample received without proper preservative.	
<input type="checkbox"/> Cooler temperature not within 4°C ± 2°C	
Record temperature: _____	
<input type="checkbox"/> pH _____	9. <input type="checkbox"/> All coolers on airbill not received with shipment.
<input type="checkbox"/> other: _____	10. <input type="checkbox"/> Sample volume insufficient for analysis
3. <input type="checkbox"/> Sample received in improper container.	11. <input type="checkbox"/> Other (explain below)
4. <input type="checkbox"/> Sample received without proper paperwork. Explain: _____	
5. <input type="checkbox"/> Paperwork received without sample.	
6. <input type="checkbox"/> No sample ID on sample container.	
7. <input type="checkbox"/> Custody tape disturbed/broken/missing/not tamper evident type (circle all that apply).	

☒ No variances were noted during sample receipt.

☒ Cooler Temperature Upon Receipt in °C: 20

Temperature Variance Does Not Affect the Following Analyses: _____

Notes: _____

Corrective Action:

- ☐ Client's Name: _____ Informed verbally on: _____ By: _____
- ☐ Client's Name: _____ Informed in writing on: _____ By: _____
- ☐ Sample(s) processed "as is". _____
- ☐ Sample(s) on hold until: _____ If released, notify: _____

Sample Control Supervisor Review: (or designate) Judy Watson Date: 05-25-00Project Management Review: Milard Date: 5-26-00

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SL-ADMIN-0004, Revised 03/06/00

GC

BECOTEL HANFORD, INC.

Client Sample ID: BOXNH0

~~GC Semivolatiles~~ PCBs *Dayes* 6/11/2000

Lot-Sample #....: F0E260111-001 Work Order #....: DDR6W10F Matrix.....: SOLID
Date Sampled....: 05/23/00 Date Received...: 05/24/00
Prep Date.....: 06/02/00 Analysis Date...: 06/04/00
Prep Batch #....: 0154295
Dilution Factor: 1
% Moisture.....: 0.75 Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	33	ug/kg	30
Aroclor 1221	ND	33	ug/kg	30
Aroclor 1232	ND	33	ug/kg	30
Aroclor 1242	ND	33	ug/kg	30
Aroclor 1248	ND	33	ug/kg	30
Aroclor 1254	ND	33	ug/kg	31
Aroclor 1260	ND	33	ug/kg	31

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	59	(10 - 199)
Decachlorobiphenyl	73	(10 - 200)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #....: F0E260111 Work Order #....: DDR6W10G-MS Matrix.....: SOLID
MS Lot-Sample #: F0E260111-001 DDR6W10H-MSD
Date Sampled....: 05/23/00 Date Received...: 05/24/00
Prep Date.....: 06/02/00 Analysis Date...: 06/04/00
Prep Batch #....: 0154295
Dilution Factor: 1 % Moisture.....: 0.75

PARAMETER	SAMPLE SPIKE		MEASRD		PERCENT		
	AMOUNT	AMT	AMOUNT	UNITS	RECOVERY	RPD	METHOD
Aroclor 1016	ND	168	138	ug/kg	82		SW846 8082
	ND	168	109	ug/kg	65 p	24	SW846 8082
Aroclor 1260	ND	168	151	ug/kg	90		SW846 8082
	ND	168	115	ug/kg	69 p	27	SW846 8082

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Tetrachloro-m-xylene	57	(10 - 199)
	51	(10 - 199)
Decachlorobiphenyl	78	(10 - 200)
	63	(10 - 200)

NOTE (S) :
Calculations are performed before rounding to avoid round-off errors in calculated results.
Bold print denotes control parameters
p Relative percent difference (RPD) is outside stated control limits.
Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #....: F0E260111
MB Lot-Sample #: F0F020000-295

Work Order #....: DE47V101

Matrix.....: SOLID

Analysis Date...: 06/04/00
Dilution Factor: 1

Prep Date.....: 06/02/00

Prep Batch #....: 0154295

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Tetrachloro-m-xylene	59	(10 - 199)
Decachlorobiphenyl	71	(10 - 200)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #....: F0E260111 Work Order #....: DE47V102 Matrix.....: SOLID
LCS Lot-Sample#: F0F020000-295
Prep Date.....: 06/02/00 Analysis Date...: 06/04/00
Prep Batch #....: 0154295
Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
Aroclor 1016	167	152	ug/kg	91	SW846 8082
Aroclor 1260	167	160	ug/kg	96	SW846 8082

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetrachloro-m-xylene	85	(62 - 162)
Decachlorobiphenyl	85	(53 - 145)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METALS

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: F0E260111

Matrix.....: SOLID

Date Sampled...: 05/23/00

Date Received...: 05/24/00

PARAMETER	AMOUNT	SAMPLE SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
-----------	--------	------------------	-----------------	-------	----------------	-----	--------	----------------------------	--------------

MS Lot-Sample #: F0E260111-001 Prep Batch #...: 0151169

Mercury

0.0094	0.168	0.162	mg/kg	91		SW846 7471A	05/30/00	DDR6W102
0.0094	0.168	0.162	mg/kg	91	0.10	SW846 7471A	05/30/00	DDR6W103

Dilution Factor: 1

MS Lot-Sample #: F0E260111-001 Prep Batch #...: 0151177

Arsenic

3.0	202	200	mg/kg	98		SW846 6010B	05/30-05/31/00	DDR6W105
3.0	202	199	mg/kg	97	0.54	SW846 6010B	05/30-05/31/00	DDR6W106

Dilution Factor: 1

Chromium

15.9	20.2	37.0	mg/kg	104		SW846 6010B	05/30-05/31/00	DDR6W10C
15.9	20.2	35.8	mg/kg	99	3.2	SW846 6010B	05/30-05/31/00	DDR6W10D

Dilution Factor: 1

Lead

3.7	50.4	52.0	mg/kg	96		SW846 6010B	05/30-05/31/00	DDR6W108
3.7	50.4	51.6	mg/kg	95	0.84	SW846 6010B	05/30-05/31/00	DDR6W109

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #....: F0E260111

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
MB Lot-Sample #: F0E300000-177 Prep Batch #....: 0151177						
Arsenic	ND	1.0	mg/kg	SW846 6010B	05/30-05/31/00	DDWFF10D
		Dilution Factor: 1				
Chromium	ND	0.50	mg/kg	SW846 6010B	05/30-05/31/00	DDWFF122
		Dilution Factor: 1				
Lead	ND	0.30	mg/kg	SW846 6010B	05/30-05/31/00	DDWFF10E
		Dilution Factor: 1				
MB Lot-Sample #: F0E300000-169 Prep Batch #....: 0151169						
Mercury	0.012 B	0.033	mg/kg	SW846 7471A	05/30/00	DDWFF0101
		Dilution Factor: 1				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #....: F0E260111

Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Mercury	3.13	2.94	mg/kg	94		SW846 7471A	05/30/00	0151169
	3.13	3.18	mg/kg	101	7.6	SW846 7471A	05/30/00	0151169
Dilution Factor: 5								
Arsenic	53.2	58.9	mg/kg	111		SW846 6010B	05/30-05/31/00	0151177
	53.2	59.7	mg/kg	112	1.3	SW846 6010B	05/30-05/31/00	0151177
Dilution Factor: 1								
Chromium	99.4	101	mg/kg	102		SW846 6010B	05/30-05/31/00	0151177
	99.4	102	mg/kg	103	0.66	SW846 6010B	05/30-05/31/00	0151177
Dilution Factor: 1								
Lead	97.8	105	mg/kg	108		SW846 6010B	05/30-05/31/00	0151177
	97.8	105	mg/kg	108	0.05	SW846 6010B	05/30-05/31/00	0151177
Dilution Factor: 1								

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.